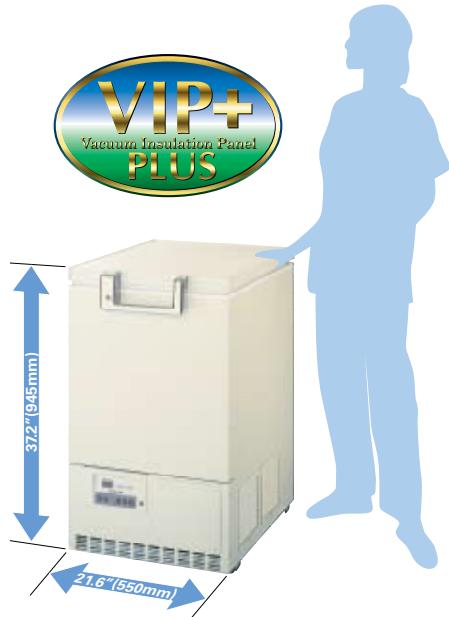


# -80°C Ultra-Low Temperature VIP® PLUS™ Freezer - MDF-C8V

<b>MDF-C8V</b>
<b>3.0 CU. FT. (84L)</b>
<b>42 - 2" 30 - 3" INVENTORY BOXES</b>
 <b>Personal Series</b>



## ULTRA LOW TEMPERATURE FREEZERS (VIP® PLUS™ INSULATION)

- Ideal -80°C freezing environment using new VIP® PLUS™ insulation technology maximizes storage capacity

- Newly developed single-compressor system achieves higher energy efficiency and space saving construction

- Convenient maintenance with filterless structure that makes filter cleaning unnecessary

- Microprocessor temperature control with digital input for precise setting and control.

- Built-in audible and visible temperature and power failure alarms

FEATURE	BENEFIT
New VIP® PLUS™ Technology	Patented revolutionary vacuum insulation cabinet construction that reduces the wall thickness from and achieves greater storage capacity while decreasing the footprint. Reduces power consumption by 40%.
Microprocessor Controls	Comprehensive setpoint, alarm, monitoring and diagnostic functions based on SANYO-built microprocessor controller with digital LED display.
SANYO Brand Refrigeration	Single-compressor system designed by SANYO specifically for demanding ultra-low temperature applications in a laboratory environment.
New Refrigeration Circuit	Filterless refrigeration circuit requires no cleaning or maintenance of filter and maintenance

## TECHNOLOGY

- VIP® PLUS™ ■ Constant -80°C ■ Microprocessor Temperature Control ■ Temperature & Power Failure Alarms ■ LED Digital display

SANYO MDF-C8V ultra-low temperature freezer maintains internal temperatures as low as -80°C. All models use SANYO uniquely designed compressors for ultra-low temperature applications. Manufactured with VIP® PLUS™ insulation, they are ideally suited for use in laboratories and hospitals for long-term preservation and storage of blood, specimens and components, as well as materials testing.

Advanced features include V.I.P. PLUS™ technology, a microprocessor based temperature control system with LED digital temperature display, a platinum resistance temperature sensor for extra precision and reliability, a power failure warning system with built-in audible and visible indicators, filterless refrigeration circuit, and temperature alarm.

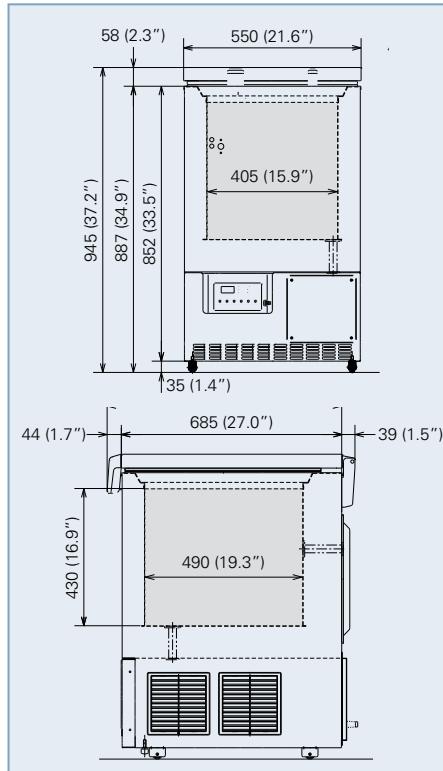
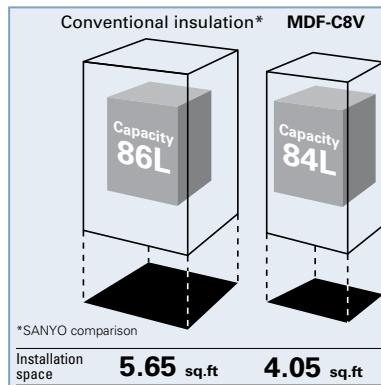
## EVOLUTIONARY DESIGN

■ SANYO's most advanced insulation system V.I.P.® PLUS™ enables reducing the thickness of insulation to approximately one half compared to conventional systems. Use of V.I.P. PLUS™ insulation material on the front, left, and right sides enables a smaller installation space with exceptional storage capacity to foot print ratio.

- Newly developed single-compressor system achieves a space reduction and enables low-noise operation.
- Achieves 40% higher energy conservation than competing models with conventional insulation.
- New refrigeration circuit without filter makes the inconvenient customer maintenance procedure of filter cleaning unnecessary.

## SAFETY & ALARM

- Alarm lamp and buzzer offer secure warning of power failure or abnormal temperature changes.
- High and low temperature warning provides an audible and visual alarm when the temperature deviates more than  $\pm 5^{\circ}\text{C}$  to  $\pm 20^{\circ}\text{C}$  (adjustable) from the set point.
- Alarm ring back function ensures that buzzer will resume operation should alarm conditions continue after it is silenced.
- Control panel with LED digital display for easy operation.



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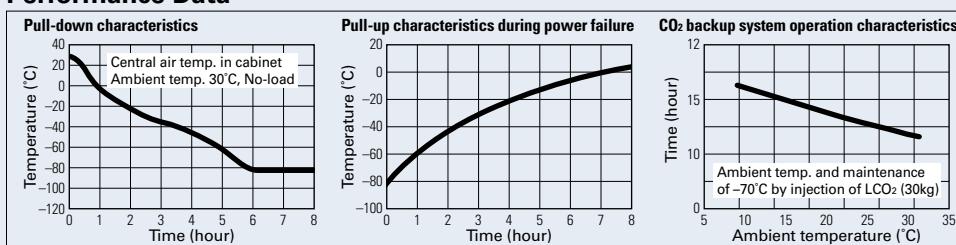
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## Performance Data



## Specifications

Model	<b>MDF-C8V</b>
<b>Temperature range</b>	-60°C to -80°C (1°C increments)
<b>Maximum cooling performance</b>	-80°C (Ambient temp. 30°C)
<b>Exterior dimension (W x D x H)</b>	21.6" x 27.0" x 37.2" (550 x 685 x 945 mm)
<b>Inner dimension</b>	15.9" x 19.3" x 16.9" (405 x 490 x 430 mm)
<b>Effective capacity</b>	3.0cu.ft. (84 Liter)
<b>Net weight</b>	Approx. 67 kg (148lbs.)
<b>Storage capacity</b>	2" box: 42pcs. (SCR-072 x 6 racks) 3" Box: 30 pcs.
<b>Outer door/Inner door</b>	Outer Lid: 1piece, Inner Lid: 1piece
<b>Insulation</b>	New VIP® Plus™ Rigid polyurethane foam (HC)
<b>Cooling system</b>	115V / 60 Hz / 1Phase NEMA 5-15P Plug
<b>Compressor</b>	Rotary type, Output: 400W (1/2 HP)
<b>Refrigerant</b>	HFC
<b>Evaporator</b>	Tube on sheet type
<b>Alarm system</b>	<ul style="list-style-type: none"> <li>• High/Low temp. alarm (5°C to 20°C)</li> <li>• Power failure alarm</li> <li>• Remote alarm contact: DC30V, 2A</li> </ul>

## Options

**LCO<sub>2</sub> Back-up system** **Temperature Recorder**



**MTR-C954**

**CVK-UB4 (I)**

**Back-up system mounting kit**  
**MDF-UBK**



\*Appearance and specifications are subject to change without notice.

\*Cooling performance is indicated by the temperature reached at the center of the freezer (at ambient temperature of 30°C with no load). lowest temperature.